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John Criswell, Andrew Lenharth, Dinakar Dhuriati, Vikram Adve October 2007 SOSP '07: Proceedings of twenty-first ACM SIGOPS symposic

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This paper describes an efficient and robust approach to provide a safe system, such as Linux, and all its applications. The approach, which we defines ...

Keywords: compiler, memory safety, operating systems, security, type machine

Also published in:

October 2007 SIGOPS Operating Systems Review Volume 41 Issue 6

2 Dynamic optimization for efficient strong atomicity

Florian T. Schneider, Vijay Menon, Tatiana Shpeisman, Ali-Reza Adl-Tabata October 2008 OOPSLA '08: Proceedings of the 23rd ACM SIGPLAN confere languages and applications

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Transactional memory (TM) is a promising concurrency control alternati important memory model issues regarding TM semantics and exposed p safe, managed languages such ...

**Keywords**: code generation, compiler optimizations, dynamic optimizat virtual machines

Also published in:

October 2008 SIGPLAN Notices Volume 43 Issue 10

3 Design of the Java HotSpot™ client compiler for Java 6

Thomas Kotzmann, Christian Wimmer, Hanspeter Mössenböck, Thomas Ro May 2008 Transactions on Architecture and Code Optimization (T. Publisher: ACM Request Permissions
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Version 6 of Sun Microsystems' Java HotSpot  $^{TM}$  VM ships with a redesign that includes several research results of the last years. The client compiused by default ...

**Keywords**: Java, compiler, deoptimization, intermediate representation register allocation

Compiler and runtime support for efficient software transactional mental Ali-Reza Adi-Tabatabai, Brian T. Lewis, Vijay Menon, Brian R. Murphy, Brat June 2006
 PLDI '06: Proceedings of the 2006 ACM SIGPLAN conference implementation

Publisher: ACM Request Permissions
Full text available: Pdf (211.55 KB)

Additional Information: full citation, abst

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Programmers have traditionally used locks to synchronize concurrent ac synchronization, however, has well-known pitfalls: using locks for fine-g that already uses locks are both difficult ...

**Keywords**: code generation, compiler optimizations, locking, synchroni machines

Also published in:

June 2006 SIGPLAN Notices Volume 41 Issue 6

PPython: a step towards reconciling dynamically and statically typed Davide Ancona, Massimo Ancona, Antonio Cuni, Nicholas D. Matsakis October 2007 **DLS '07:** Proceedings of the 2007 symposium on Dynamic lai

Publisher: ACM

Full text available: Pdf (239.48 KB)

Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 91, Downloa

Although the C-based interpreter of Python is reasonably fast, implement offers some advantages in terms of robustness and interoperability. Unfiprimarily designed to execute ...

Keywords: .NET, JVM, Python

6 Online optimizations driven by hardware performance monitoring Florian T. Schneider, Mathias Payer, Thomas R. Gross

June 2007 PLDI '07: Proceedings of the 2007 ACM SIGPLAN conference

implementation

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Pdf (224.36 KB)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 122, Downloads

Hardware performance monitors provide detailed direct feedback about source of infor-mation that a compiler may use for optimization. A JIT c such information because ...

**Keywords**: Java, dynamic optimization, hardware performance monitor

Also published in:

June 2007 SIGPLAN Notices Volume 42 Issue 6

7 Optimistic parallelism benefits from data partitioning

Milind Kulkarni, Keshav Pingali, Ganesh Ramanarayanan, Bruce Walter, Kar March 2008 ASPLOS XIII: Proceedings of the 13th international conferer languages and operating systems

Publisher: ACM Pequest Permissions

Full text available: Fiv (22:0 MIN), Pdf (356.09 KB) Additional Information: full citatio

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 223, Downloads

Recent studies of irregular applications such as finite-element mesh gen shown that these applications have a generalized data parallelism arisin perform computations on ...

Keywords: data partitioning, irregular programs, locality, lock coarseni decomposition

Also published in:

March 2008 SIGARCH Computer Architecture News Volume 36 Issue 1 March 2008 SIGPLAN Notices Volume 43 Issue 3 March 2008 SIGOPS Operating Systems Review Volume 42 Issue 2

8 Code Generation and Optimization for Transactional Memory Constr Cheng Wang, Wei-Yu Chen, Youfeng Wu, Bratin Saha, Ali-Reza Adi-Tabatal March 2007 CGO '07: Proceedings of the International Symposium on Coo **Publisher:** IEEE Computer Society

Full text available: Tile (365.03 KB) Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 153, Downloads

Transactional memory offers significant advantages for concurrency con the design and implementation of transactional memory constructs in a languages pose a unique set of challenges ...

9 Just-In-Time compilation on ARM processors

Michele Tartara, Simone Campanoni, Giovanni Agosta, Stefano Crespi Regi I COOOLPS '09: Proceedings of the 4th workshop on the Imp July 2009 Object-Oriented Languages and Programming Systems

Publisher: ACM Pequest Permissions

Full text available: Additional Information: <u>Pdf</u> (604.92 KB)

full citation, abst

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 41, Downlo

This paper presents a Just-In-Time compilation system for ARM process starting from static compilation of the sources into CIL (Common Intermintermediate languages that are used ...

Keywords: ARM, dynamic compilation, embedded systems

10 Gestural hyper instrument collaboration with generative computation Kirsty Beilharz, Sam Ferguson

June 2007 C&C '07: Proceedings of the 6th ACM SIGCHI conference on

Publisher: ACM Request Permissions
Full text available: Pdf (44.02 MB)

Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 131, Downlo

This paper describes the performance, mapping, transformation and repetriggered musical creativity. These phases are articulated in an example Crossing), an audio-visually ...

Keywords: augmented performance, generative music, gestural intera-

Tracing for web 3.0: trace compilation for the next generation web at Mason Chang, Edwin Smith, Rick Reitmaier, Michael Bebenita, Andreas Gal Franz

March 2009 **VEE '09:** Proceedings of the 2009 ACM SIGPLAN/SIGOPS inte

Publisher: ACM Pequest Permissions Full text available: Pdf (647.16 KB)

Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 53, Downloads (12 Months): 291, Downloads

Today's web applications are pushing the limits of modern web browsers platform of choice for rich client-side applications has shifted the use of programs to large computationally ...

**Keywords**: dynamic compilation, dynamically typed languages, forth, j specialization

12 Enforcing isolation and ordering in STM

Tatiana Shpeisman, Vijay Menon, Ali-Reza Adi-Tabatabai, Steven Balensief Katherine F. Moore, Bratin Saha

June 2007 **PLDI '07:** Proceedings of the 2007 ACM SIGPLAN conference implementation

Publisher: ACM Request Permissions

Full text available: Pdf (257.39 KB)

Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 208, Downl

Transactional memory provides a new concurrency control mechanism t synchronization. High-performance software transactional memory (STN atomicity: Accessing shared ...

**Keywords**: code generation, compiler optimizations, escape analysis, is transactional memory, virtual machines, weak atomicity

Also published in:

June 2007 SIGPLAN Notices Volume 42 Issue 6

13 Hardware atomicity for reliable software speculation

Naveen Neelakantam, Ravi Rajwar, Suresh Srinivas, Uma Srinivasan, Craic June 2007 ISCA '07: Proceedings of the 34th annual international symp Publisher: ACM

Full text available: Pdf (805.55 KB) Additional Information: full citation, absi

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 121, Downloads

Speculative compiler optimizations are effective in improving both single consumption, but their implementation introduces significant complexity optimization scope, and ...

Keywords: Java, atomicity, checkpoint, isolation, optimization, specula

Also published in:

June 2007 SIGARCH Computer Architecture News Volume 35 Issue 2

14 Design and evaluation of dynamic optimizations for a Java just-in-tim Toshio Suganuma, Toshiaki Yasue, Motohiro Kawahito, Hideaki Komatsu, T July 2005 Transactions on Programming Languages and Systems

Publisher: ACM 🎾 Request Permissions

Full text available: Pdf (1.60 MB)

Additional Information: full citation, absi

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 219, Downloads

The high performance implementation of Java Virtual Machines (JVM) ar toward employing a dynamic compilation system on the basis of online between the compilation overhead ...

**Keywords**: JIT compiler, Recompilation, adaptive optimization, code sp directed method inlining

15 CodeBricks: code fragments as building blocks

Giuseppe Attardi, Antonio Cisternino, Andrew Kennedy

June 2003 **PEPM '03:** Proceedings of the 2003 ACM SIGPLAN workshop program manipulation

Publisher: ACM Request Permissions

Full text available: Pdf (294.34 KB)

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Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 38, Downloa

We present a framework for code generation that allows programs to m level while the joining and splicing of executable code is carried out auto. The framework introduces ...

**Keywords**: domain specific language, generative programming, metap program generation, program transformation, reflection

Also published in:

October 2003 **SIGPLAN Notices** Volume 38 Issue 10

16 Techniques for obtaining high performance in Java programs

Iflat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Lilja September 2000 **Computing Surveys (CSUR)**, Volume 32 Issue 3

Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 487, Downloads

This survey describes research directions in techniques to improve the programming language. The standard technique for Java execution is in portability of programs. ...

**Keywords**: Java, Java virtual machine, bytecode-to-source translators, interpreters, just-in-time compilers

17 SciSim: a software performance estimation framework using source

Zhonglei Wang, Antonio Sanchez, Andreas Herkersdorf
June 2008 WOSP '08: Proceedings of the 7th internal

June 2008 WOSP '08: Proceedings of the 7th international workshop on

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Full text available: Pdf (1.18 MB) Additional Information: full citation, absi

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 93, Downlo

Recently, software performance estimation based on source code instru literature. It achieves significant speedup without compromising accuracy However, much work still ...

**Keywords**: debugging information, microarchitecture, software perforn instrumentation

18 Demystifying magic: high-level low-level programming

Daniel Frampton, Stephen M. Blackburn, Perry Cheng, Robin J. Garner, Dav March 2009 VEE '09: Proceedings of the 2009 ACM SIGPLAN/SIGOPS inte environments

Publisher: ACM Pequest Permissions
Full text available: Pdf (479.11 KB)

Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 196, Downloads

The power of high-level languages lies in their abstraction over hardwar security, better reliability, and lower development costs. However, opaq

systems programmers, ...

Keywords: debugging, intrinsics, jikes rvm, magic, mmtk, systems prc

19 Dynamo: a transparent dynamic optimization system

Vasanth Bala, Evelyn Duesterwald, Sanjeev Banerjia

August 2000 PLDI '00: Proceedings of the ACM SIGPLAN 2000 conference implementation

Publisher: ACM Request Permissions Full text available: 📆 🍱 (156.03 KB)

Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 305, Downl

We describe the design and implementation of Dynamo, a software dyn transparently improving the performance of a native instruction stream native instruction stream ...

Also published in:

May 2000 SIGPLAN Notices Volume 35 Issue 5

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